DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

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Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-012515 Address: 333 Burma Road **Date Inspected:** 09-Mar-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Li Yang No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component:** OBG

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance Inspector (QA) Joe Alaniz was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

OBG Assembly Yard

6CE

Shield Metal Arc Welding (SMAW) repair welding was performed on weld joint 005 located at CA030 on the bike path side of segment. Welder is identified as Mr. Nui Duojun (037932). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-2G (2F)-FCM-Repair-1 and WR10758 repair procedure.

Shield Metal Arc Welding (SMAW) repair welding was performed on weld joint 174 located at SSD27-PP045 on the cross beam side of segment. Welder is identified as Mr. Han Xiaofeng (045567). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-4G (4F)-FCM-Repair-1 and CWR1251 repair procedure.

Shield Metal Arc Welding (SMAW) repair welding was performed on weld joint 169 located at SSD18-PP046 on the cross beam side of segment. Welder is identified as Mr. Han Xiaofeng (045567). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-4G

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(4F)-FCM-Repair-1 and WR10770 repair procedure.

6BE

Shield Metal Arc Welding (SMAW) repair welding was performed on weld joint 001 located at CA028 on the bike path side of segment. Welder is identified as Mr. Zhao Aifei (067942). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-4G (4F)-FCM-Repair-1 and WR10757 repair procedure.

6CW

Shield Metal Arc Welding (SMAW) repair welding was performed on weld joint 005 located at CA029 on the counter weight side of segment. Welder is identified as Mr. Li Bin (069896). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-4G (4F)-FCM-Repair-1.

Shield Metal Arc Welding (SMAW) repair welding was performed at side plate temporary attachment areas located at panel point 47 on counter weight side of segment. Welder is identified as Mr. Li Bin (069896). ZPMC QC is identified as Li Yang. The welding variables monitored and recorded by the QC appeared to comply with WPS-345-SMAW-4G (4F)-FCM-Repair-1.

NDT Observation

This QA Inspector observed ZPMC Magnetic Particle Testing (MT) Technician performed MT on various locations in the trial assembly yard. Locations are as followed:

6CW

1. Longitudinal diaphragm and horizontal stiffeners located between panel point 44, 45 and 46 on crossbeam side of segment.

6CE

1. Longitudinal diaphragm and horizontal stiffeners located between panel point 44, 45 and 46 on crossbeam side of segment.

Miscellaneous Work In Progress

QA Inspector observed ZPMC's personnel performing various job functions in the trial assembly yard. Locations and description of work are as followed:

6CE

1. ZPMC worker performing the excavation of weld joint FB028-006-128 at panel point 46 per WR10767.

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6 West

1. Grit blasting in progress (internal) of segment.

7BW+7CW

1. Back gouging performed on weld splice OBW7B-006, 007, 009 and 010 cross beam and counter weight side of segment.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.





Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (150-0042-2372), who represents the Office of Structural Materials for your project.

Inspected By:	Alaniz,Joe	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer